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January 25, 2013

Ms. Jackie Drummond  
North Carolina Department of Environment and Natural Resources  
Division of Waste Management, Solid Waste Section  
1646 Mail Service Center  
Raleigh, North Carolina 27699-1646

**RE: Notification of Detections above NC 2L or SWS GWPS Standards  
Second Semiannual Sampling Event of 2012  
Granville County – Closed Butner Landfill Permit No. 39-02  
JOYCE Project No. 00660.1201.12, Task 05**

Dear Ms. Drummond:

On behalf of Granville County, Joyce Engineering is submitting this notification of exceedances of 15A-NCAC-2L (NC-2L) groundwater standards at the Granville County – Butner Landfill, Permit No. 39-02 in accordance with Title 15A, Chapter 13, Subchapter 13B, Section .1634 (g) of the North Carolina Solid Waste Management Regulations. The second semiannual sampling event of 2012 at the Butner Landfill took place on December 12, 2012. The samples were sent to Pace Analytical Services, Inc., where the groundwater samples were analyzed for NCSWMR Appendix I and Appendix II historically detected constituents.

Cobalt in MW-2R and MW-5 was reported above the GWPS Standard. Preliminary statistical analysis does not indicate statistical increase above the calculated background value for cobalt.

Benzene in MW-2R was initially reported above the NC 2L Standard at 1.6 µg/L. Verification sampling occurred on January 10, 2013. Results from the verification event confirmed the initial detection of benzene above the NC 2L in MW-2R. In conjunction with the verification sampling event a previously installed nature and extent (NES) well NES-1 was also sampled. Benzene was not detected in NES-1. Due to the initial detection and verification of benzene in MW-2R above the NC 2L the Granville County, Butner landfill will proceed with an Assessment of Corrective Measures (ACM) report.

If you have any questions or need additional information, please feel free to contact me at (336) 323-0092.

Sincerely,  
JOYCE ENGINEERING, INC.

A handwritten signature in black ink, appearing to read "Van Burbach", written over a horizontal line.

Van Burbach Ph.D., P.G.  
Technical Consultant

Copy: Jason Falls, Granville County